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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/586,506

09/14/2007

Boris Kokorin

089416-000000US

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20350 7590 05/13/2008  
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EXAMINER

DUONG, DIEU HIEN

ART UNIT

PAPER NUMBER

2821

MAIL DATE

DELIVERY MODE

05/13/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/586,506	<b>Applicant(s)</b> KOKORIN, BORIS	
	<b>Examiner</b> DIEU HIEN T. DUONG	<b>Art Unit</b> 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 July 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 July 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>07/17/2006</u> .  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Status of Application***

1. This Office Action is a response to Applicants' Preliminary Amendment filed on 07/17/2006. In virtue of this Preliminary Amendment, claim 14 is canceled; claims 1-13 are currently presented in the instant application.

### ***Priority***

2. Acknowledgement is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

### ***Information Disclosure Statement***

3. The information disclosure statement (IDS) submitted on 07/17/2006 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is considered by the examiner.

If applicant is aware of any prior art or any other co-pending application not already of record, he/she is reminded of his/her duty under 37 CFR 1.97 to disclose the same.

### ***Drawings***

4. The drawing submitted on 07/17/2006 is accepted as part of the formal application.

### ***Specification***

5. The disclosure is objected to because of the following informalities:

In page 1 of specification, after the title, the paragraph - -This application is a 371 of PCT/IB05/00074 filed on 01/14/2005- - should be inserted.

Appropriate correction is required.

***Claim Objections***

6. Claims 1-2 are objected to because of the following informalities:

Claim 1, line 1, "it" should be changed to - -said antenna- -;

Claim 2, line 1, "it" should be changed to - -said antenna- -;

Claim 12, line 2, "it" should be changed to - -said antenna- -;

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 8 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 8, line 1, the recitation "it has a plurality of windings, each winding having a start and an end" is unclear. It is unclear what the word "**it**" refers to.

Regarding claim 10, line 1, the recitation "it has a plurality of windings, each winding having a start and an end" is unclear. It is unclear what the word "**it**" refers to.

Clarification is required.

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Goloviznin (US 2,179,257).

Regarding claim 1, Goloviznin discloses, in Figures 1-3, an antenna, characterized that said antenna is spheroidal.

Regarding claim 2, as applied to claim 1, Goloviznin discloses, in Figures 1-5, characterized therein that said antenna has a winding (4) that is spheroidally configured.

Regarding claim 3, as applied to claim 2, Goloviznin discloses, in Figures 1-5, characterized therein that the winding (4) comprising a three-dimensional spiral about an axis, the radius of turns of the winding progressively increasing and then decreasing.

Regarding claim 4, as applied to claim 2, Goloviznin discloses, in Figures 1-5, characterized therein that the winding is of a multi-solenoid conductor.

Regarding claim 5, as applied to claim 2, Goloviznin discloses, in Figures 1-5, characterized therein that the winding is composite, comprising a primary conductor (4) with a secondary conductor (5) wound toroidally about the primary conductor (4).

Regarding claim 6, as applied to claim 5, Goloviznin discloses, in Figures 1-5, characterized therein that the primary conductor is a multi-solenoid conductor.

Regarding claim 7, as applied to claim 5, Goloviznin discloses, in Figures 1-5, characterized therein that the secondary conductor is a multi-solenoid conductor.

Regarding claim 8, as applied to claim 2, as best understood, Goloviznin discloses, in Figures 1-5, characterized therein that said antenna has a plurality of windings, each winding having a start and a end.

Regarding claim 9, as applied to claim 8, Goloviznin discloses, in Figures 1-5, characterized therein that turns of a first winding are laterally adjacent the turns of a second winding.

Regarding claim 10, as applied to claim 8, Goloviznin discloses, in Figures 1-5, characterized therein that said antenna has a plurality of layers (4, 5).

Regarding claim 11, as applied to claim 10, Goloviznin discloses, in Figures 1-5, characterized therein that the turns of a winding in a first layer are at an angle to turn of a super-adjacent second layer.

Regarding claims 12-13, as applied to claim 2, Goloviznin discloses, in Figures 1-5 and page 2, lines 41-51, characterized therein that said antenna has a spheroidal former on which the or each winding is wound; wherein the former is hollow.

### ***Inquiry***

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIEU HIEN T. DUONG whose telephone number is (571)272-8980. The examiner can normally be reached on Monday - Friday, from 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Owens can be reached on 571-272-1662. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

05/11/08

DD

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/Trinh Vo Dinh/

Primary Examiner, Art Unit 2821